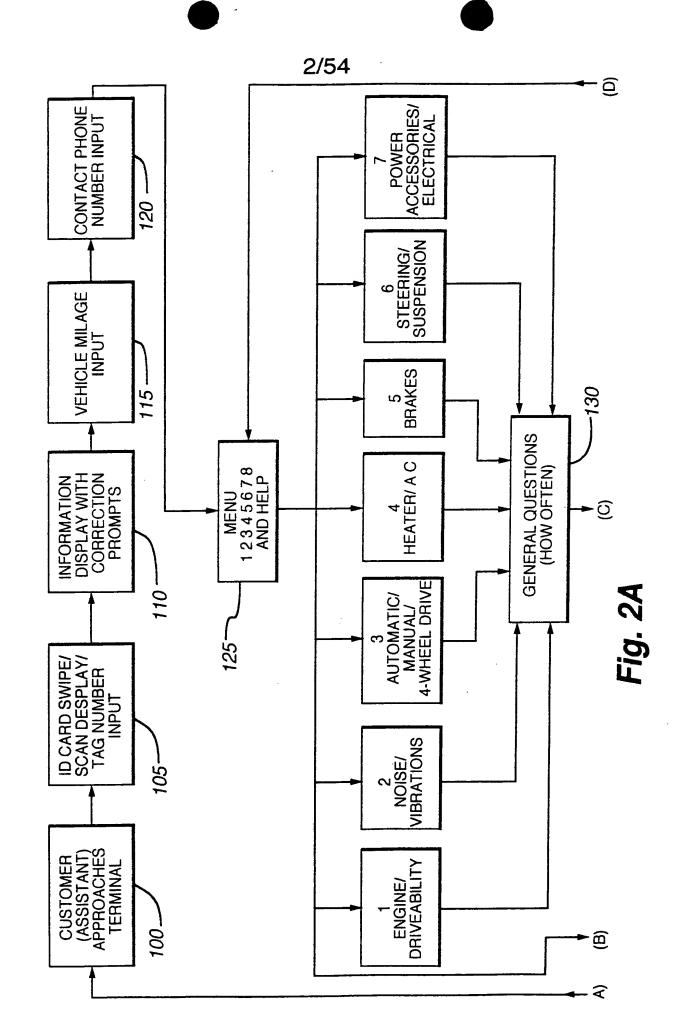


Fig. 1



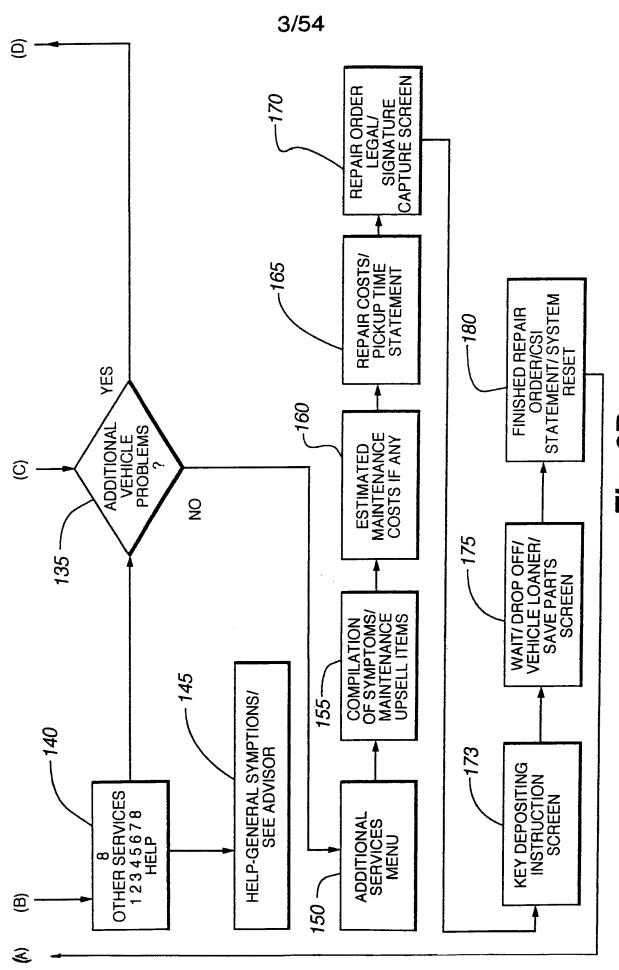
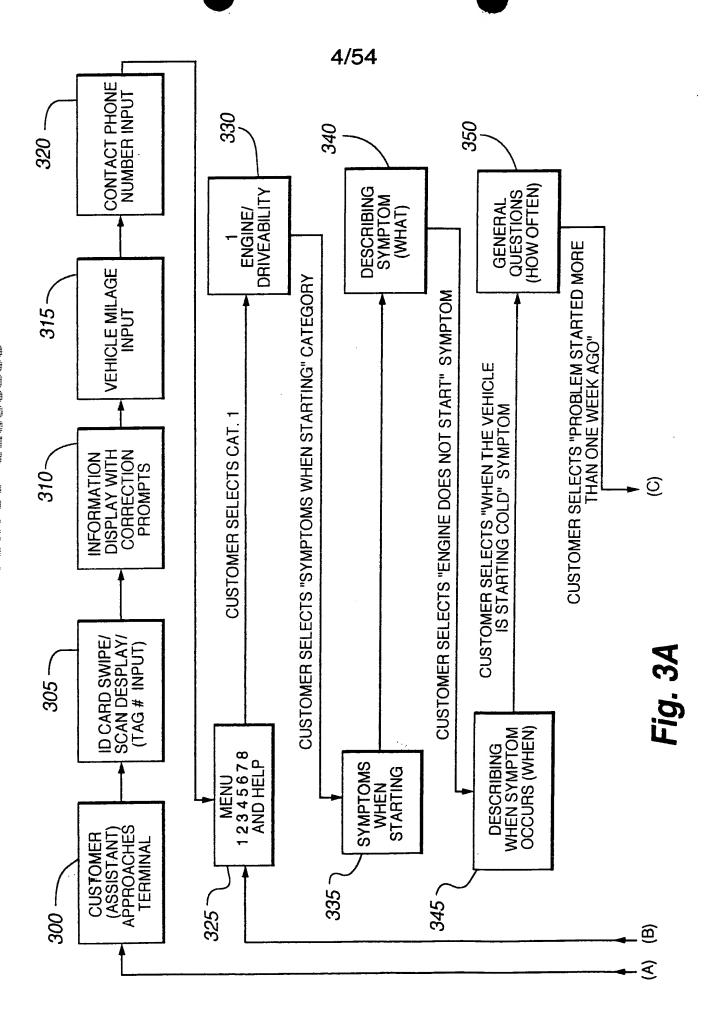


Fig. 2B



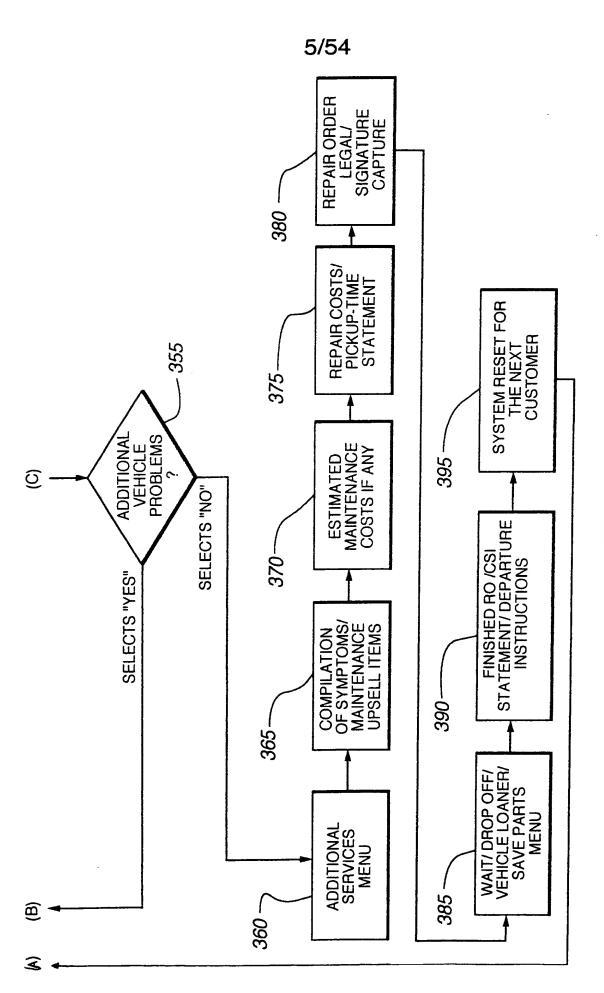
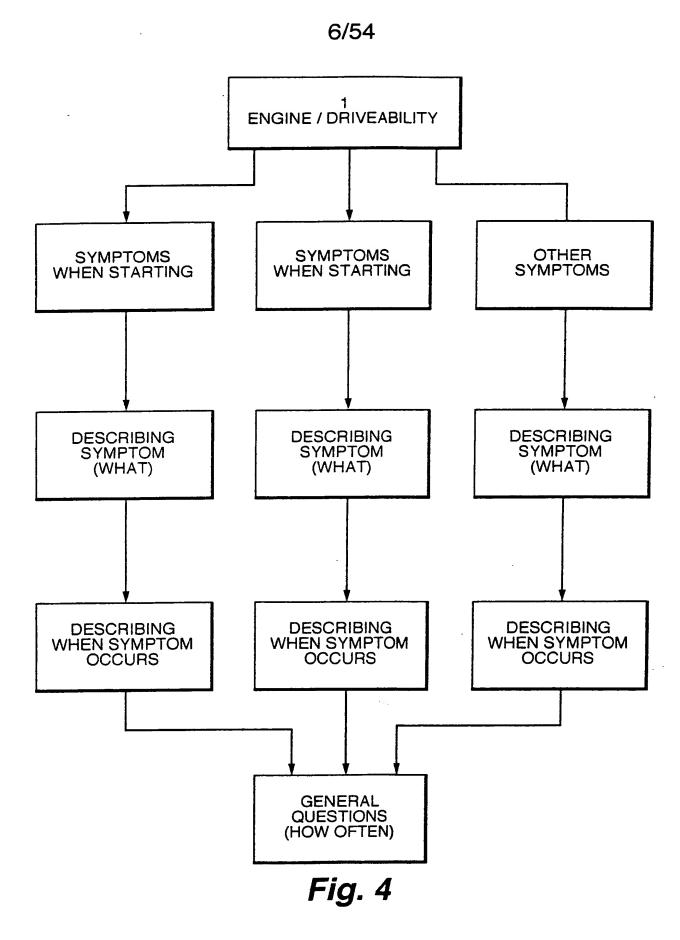
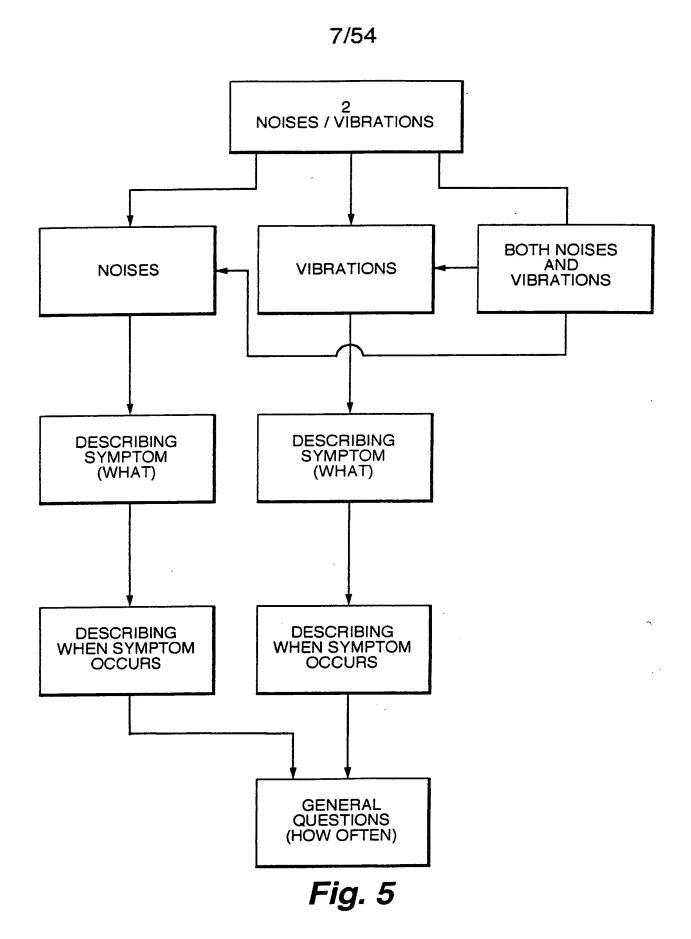
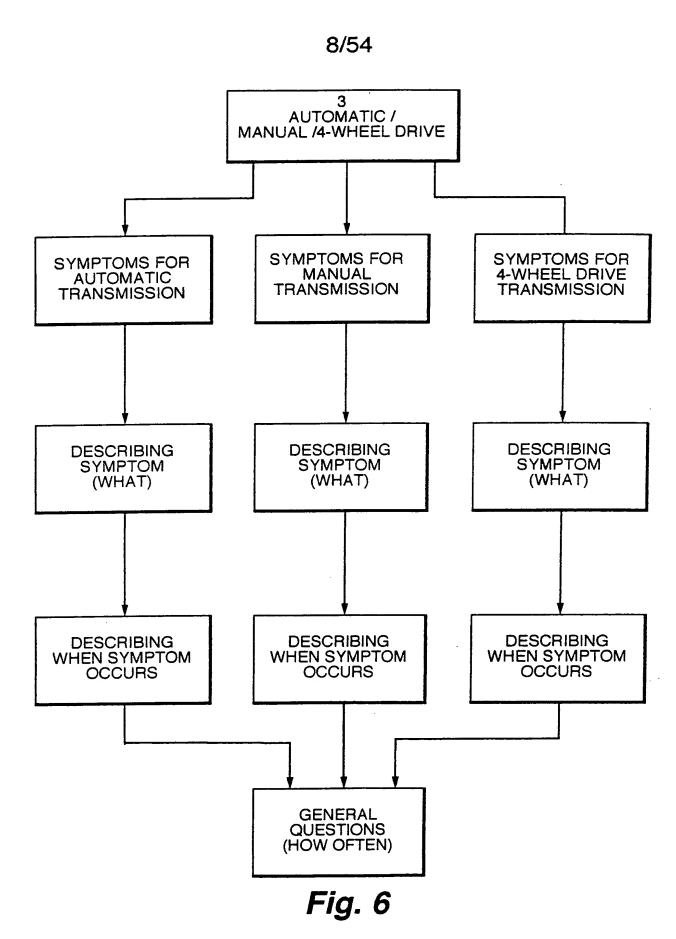
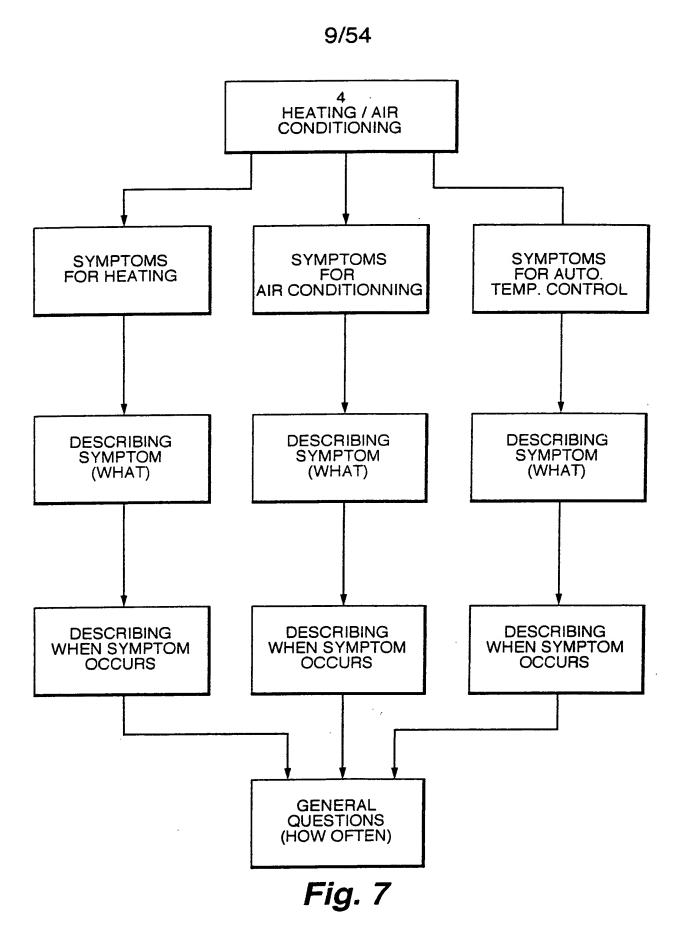


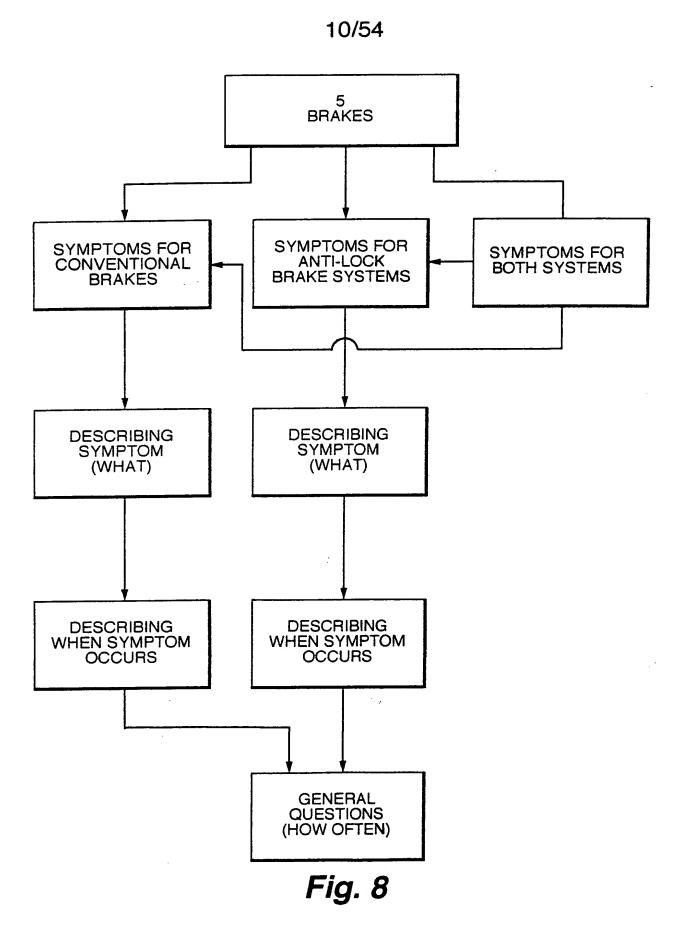
Fig. 3B

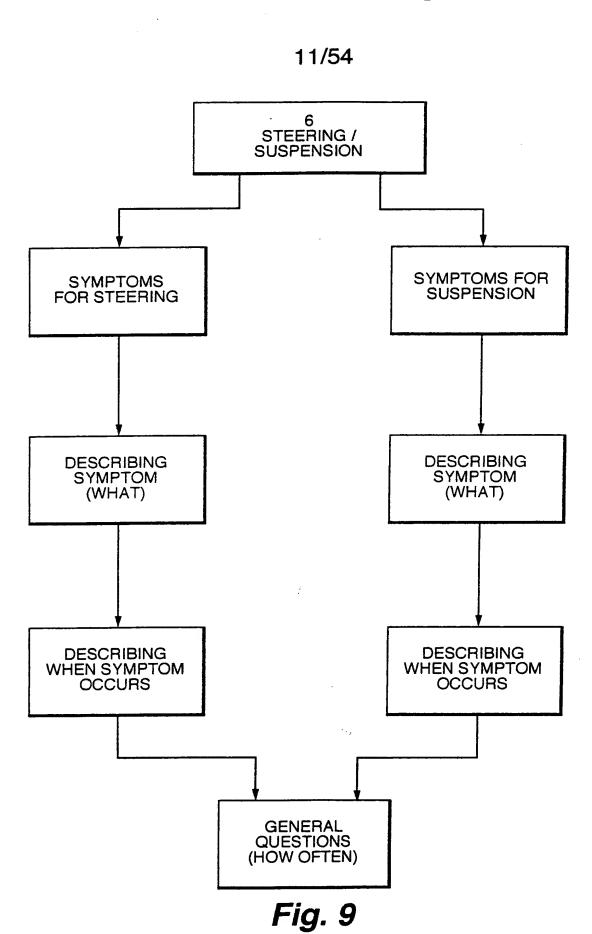




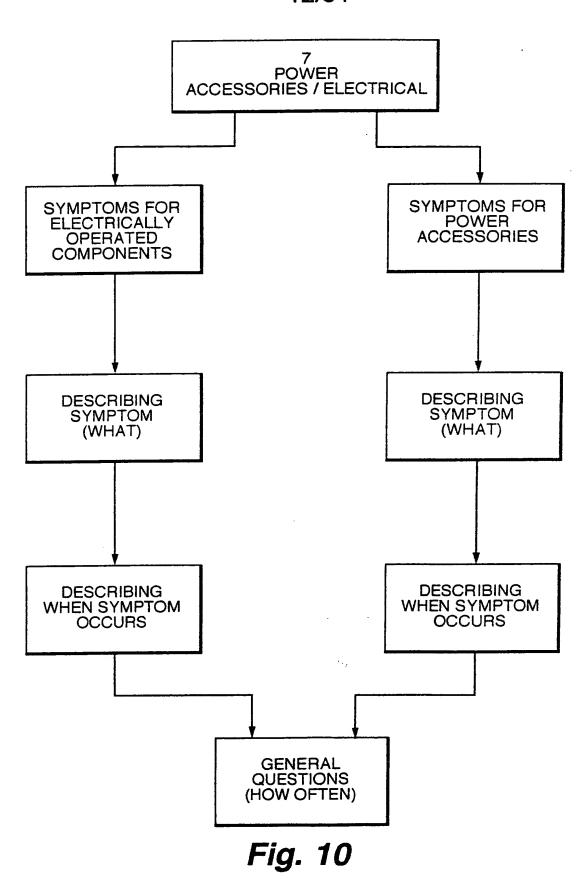


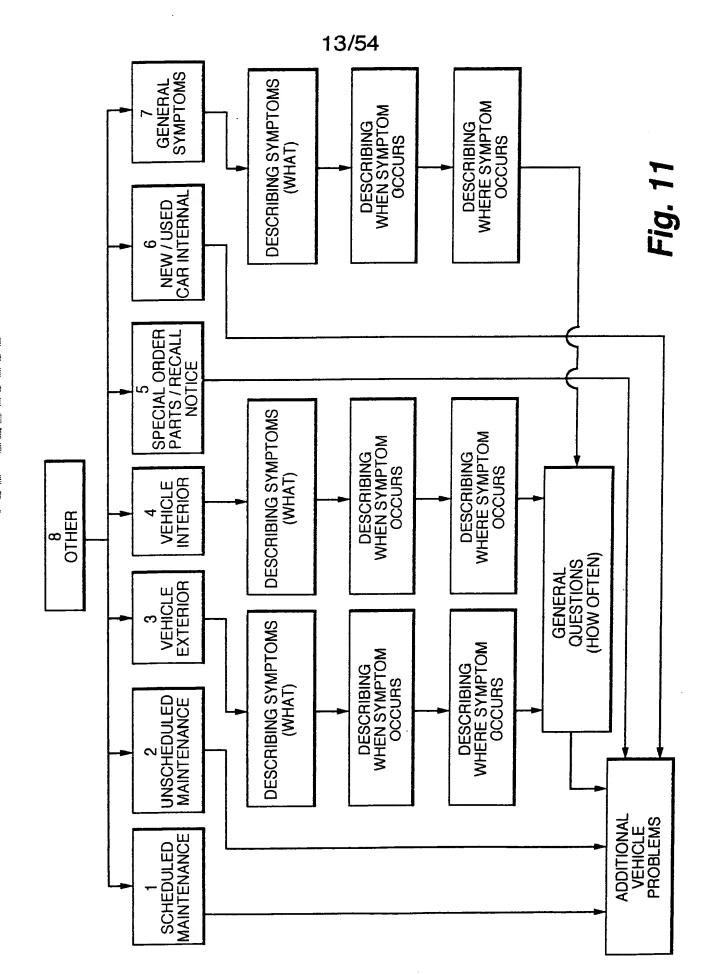


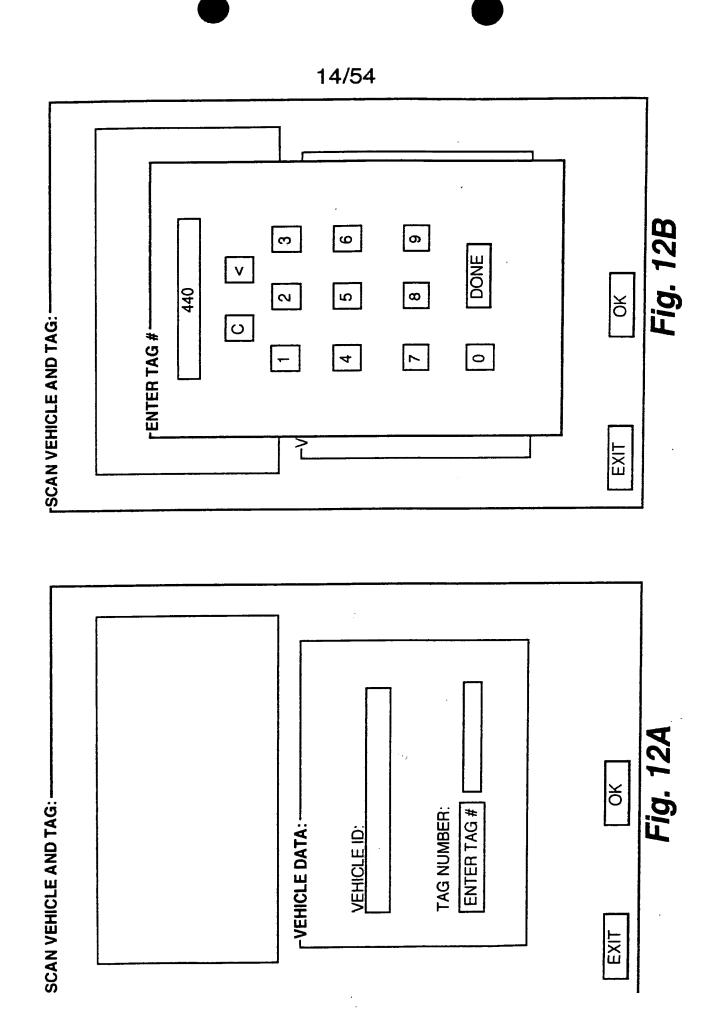




12/54

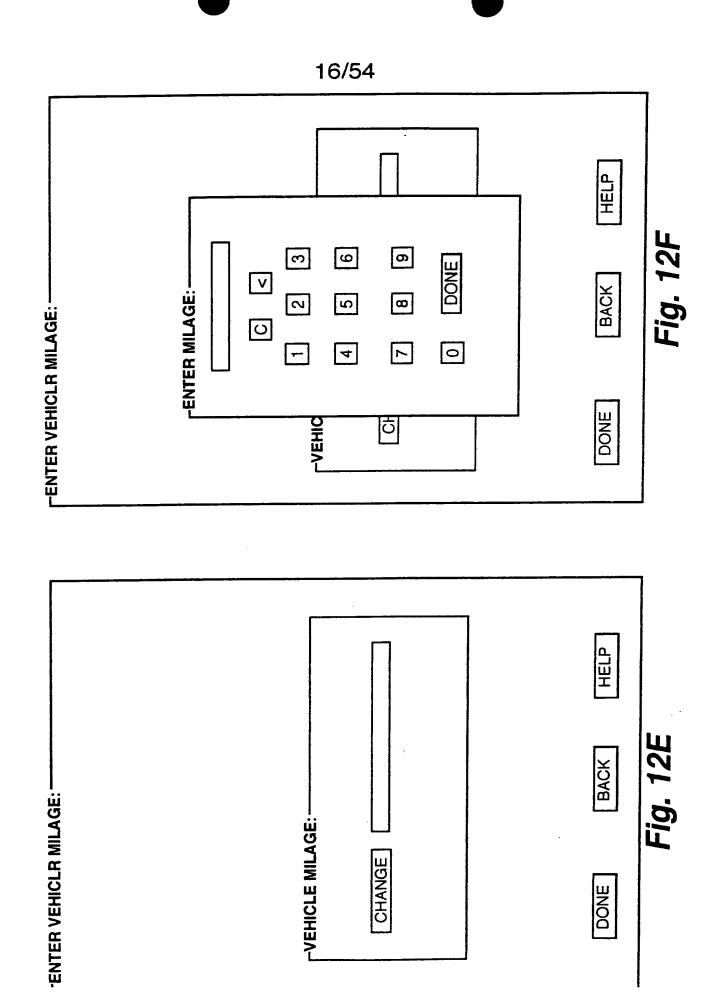






CUSTOMER'S INFORMATION:	CUSTOMER INFORMATION:	JOHN DOE	CHANGE	1234 HIS WAY ST.	CHANGE	ANYTOWN, USA 12345	CHANGE	CUSTOMER VEHICLE	CHANGE BRT-1234	VEHICLE DESCRIPTION:  [DODGE RAM 350, FORREST GREEN, 2001 ▼		OK BACK
CUSTOMER'S INFORMATION:	CUSTOMER INFORMATION:	JOHN DOE	CHANGE	1234 HIS WAY ST.	CHANGE	ANYTOWN, USA 12345	CHANGE 718.	ANYTOWN, USA 12345 <		OWERTYULOP ASDFGHJKL	ZXCVBNM.	CLEAR SPACE DONE

15/54



## ENTER CONTACT PHONE NUMBERS: WELCOME TO THE JACK'S BMW. THIS SERVICE EXPRESS WRITER IS DESIGNED TO LESSEN YOUR TIME WAITING FOR SERVICE. AT THE SAME TIME IT INCREASES THE ACCURACY OF THE DESCRIPTION OF YOUR PROBLEM GIVEN TO THE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. WE HOPE YOU ENJOY THE EXPERIENCE.

PLEASE ENTER THE PHONE NUMBER(S) WHERE YOU CAN BE REACHED AT TODAY	PHONE NUMBERS:	CHANGE (303)333-4444	(303)333-4444	DONE BACK

*H* 

Fig. 12G

## -MAIN MENU--

PLEASE INDICATE THE GENERAL AREA IN WHICH
THE PROBLEM IS OCCURRING. IF YOUR VEHICLE
REQUIRES ONLY MAINTENANCE SERVICE, AND
THERE ARE NO PROBLEMS AT THE PRESENT TIME.
PLEASE PRESS NUMBER EIGHT ON THE SERVICE
MENU. IF YOUR PROBLEM OR REQUEST DOES NOT
FALL WITHIN THE CATERGORIES LISTED, PRESS
NUMBER EIGHT.

TOUCH THE AREA OR AREAS BELOW,
THEN TOUCH DONE.

[1. ENGINE / DRIVE ABILITY ]

2. NOISES / VIBRATIONS

3. AUTOMATIC/MANUAL /4 WHEEL DRIVE TRANSMISSION

17/54

4. HEATER / AIR CONDITIONING

☐ 5. BRAKES

T 6. STEERING / SUSPENSION

☐ 7. POWER ACCESSORIES / ELECTRICAL

T 8. OTHER SERVICES

DONE

HELP

Fig. 13

	18/54	
SYMPIOMS WHEN STARTING:  TOUCH THE APPROPRIATE SYMPTOM OR SYMPTOMS BELOW.	☐ TURNS OVER, BUT DOES NOT START. ☐ TURNS OVER SLOWIY. ☐ TURNS OVER PROPERLY, BUT STARTS HARD. ☐ TAKES TOO LONG BEFORE IT STARTS. ☐ IMUST PRESS THE GAS PEDAL HARD TO MAKE THE ENGINE START. ☐ STARTS OK, BUT THAN STALLS. ☐ NONE OF THE ABOVE STARTING SYMPTOMS.	OK BACK HELP
THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. PLEASE TOUCH THE APPROPRIATE NUMBER FOR YOUR VEHICLE'S SYMPTOM. PLEASE ONLY USE THE PEN PROVIDED TO YOU.	1. SYMPTIONS WHEN STARTING 2, SYMPTOMS WHEN DRIVING 3. OTHER SYMPTOMS	1 2 3 BACK HELP  Fig. 14A

Fig. 14B

		1:	9/54			<u> </u>
SYMPTIONS WNEN DRIVING: TOUCH THE APPROPRIATE SYMPTOM OR SYMPTOMS BELOW.	HESITATES OR STALLS WHEN SPEEDING UP.  STALLS WHEN I SLOW DOWN OR STOP.	STALLS WHEN TURNING RIGHT OR LEFT.  LACKS POWER AT HIGHWAY SPEED.	☐ LACKS POWER BELOW HIGHWAY (CITY) SPEEDS. ☐ ENGINE BACKFIRES (LOUD POPPING NOISE)	ENGINE KEEPS RUNNING WHEN IGNITION  KEY IS OFF.  SPEEDS UP OR SLOWS DOWN UNEXPECTEDLY.	☐ NONE OF THE ABOVE DRIVING SYMPTOMS.	OK BACK HELP
-WHEN DO YOU NOTICE THE SYMPTOMS? TOUCH THE APPROPRIATE BOX OR BOXES, -WHEN THE ENGINE TEMPERATURE SHOWS: OCOLD ONORMAL OHOT OANY TEMP	WHEN THE ENGINE'S RPM SHOWS: OBELOW 1000 O1000 TO 2000 O2000 TO 4000 OVER 4000 RPM ONOT APPLICABLE	OWARMING UP OSTARTING COLD ORESTARTING HOT ONT APPLICABLE	DOES THE "CHECK ENGINE" LIGHT COME ON:  OYES ONO	THE SYMPTOMS OCCURE WHEN MY VEHICLE'S  SPEED IS (MPH)  O TO 20 O 20 TO 35 O 35 TO 55  OOVER 55 MPH ODOESN"T MATTER	CHE SYMPTOM OCCURES WHEN I DRIVE FOR: OUNDER 5 MILES OOVER 10 MILES OOVER 10 MILES	OK BACK HELP

Fig. 14D

Fig. 14C

## NOISE OR VIBRATION SELECTION:

THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. PLEASE TOUCH THE APPROPRATE NUMBER FOR YOUR VEHICLE'S SYMPTOM.

- 1. NOISES-WHAT YOU CAN HEAR.
- 2. VIBRATIONS-WHAT YOU CAN FEEL

		_
Z. VIBRATIONS-WRAIT TOO CAN PEEL.	ONS.	
\$ 000 000	3. BOTH NOISES AND VIBRATION	
- X	AND VI	
N-0N	ISES /	
בו אבו	TH NO	
2. VID	3. BO	

;	HELP
**	BACK
	1 2 3

Fig. 15A

## NOISE INFORMATION: \_\_

☐ METAL CLANG LISTED BELOW ARE EXAMPLES OF NOISES COMMONLY FOUND COMING FROM YOUR VEHICLE. TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBES THE NOISES □ NONE OF THE ABOVE ☐ RUMBLE GROWL ☐ KNOCK CRIND | CLICK TAP YOU ARE HEARING ☐ WHISTLE □ SQUEAK SQUEAL ☐ RATTLE CLUNK CHIRP □ BUZZ MOH [

20/54

Fig. 15B

HELP

BACK

엉

WHEN DO YOU NOTICE THE NOISE AND / VIBRATION PLEASE ANSWER THE QUESTIONS BY TOUCHING THE APPROPRIATE BOX OR BOXES WITH THE OOVER 55 MPH ODOESN'T MATTER OWET OR SNOW COVERED PAVED OPRESSING MEDIUM TO LIGHT ON THE GAS PEDAL HELP **●**BOTH **OBRAKING NORMALLY.** NON OF THE ABOVE. **OROUGH PAVED** O 20 TO 45 OTURNING RIGHT. IT OCCURES WHEN THE VEHICLE IS: -MOST LIKELY OCCURES WHEN I AM: **OPOTHOLES** OPRESSING HARD ON THE GAS PEDAL ODRIVING, LETTING UP ON THE GAS. OCRUSING AT A CONSTANT SPEED. ONOT MOVING -ON WHAT KINDS OF ROADS: --BACK AT WHAT SPEED (MPH) O5 TO 20 -WHEN DOES IT HAPPEN: DOESN'T MATTER OSMOOTH PAVED **OBREAKING HARD.** OTURNING LEFT. PROVIDED PEN O MOVING 今 O45 TO 55 O 0 TO 5 ODIRT RIGHT SIDE (PASSENGER) NOISE AND/OR VIBRATION SEEMS TO COME FROM TOUCH THE LOCATION OF THE PROBLEM ON THE **CLEAR DOT** UNDER THE VEHICLE LEFT SIDE (DRIVER) LEASE INDICATE THE APPROPRIATE AREA THE HELP Fig. 15C -WHERE IS IT COMMING FROM: APPROPRIATE ILLUSTRATION BACK CLEAR DOT **CLEAR DOT** (PASSENGER) **INSIDE THE VEHICLE** LEFT SIDE (DRIVER) RIGHT SIDE 乡

Fig. 15D

		22/54		_
TRANSMISSION INFORMATION:	THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. PLEASE TOUCH THE APPROPRIATE NUMBER FOR YOUR VEHICLE'S SYMPTOM.  PLEASE ONLY USE THE PEN PROVIDED TO YOU.	TOMATIC .	1 2 3 BACK HELP	Fig. 16A
VIBRATION INFORMATION:	LISTED BELOW ARE EXAMPLES OF VIBRATIONS COMMONLY FOUND COMING FROM YOUR VEHICLE. TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBES THE VIBRATIONS YOU ARE FEELING.	IAKING   DISHUDDI IUMPING   PULSA IEMBLING   MOAN JZZING   TINGLI JZZING   SHIMM THE AI	OK BACK HELP	Fig. 15E

TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPYOM. MAKES A GRINDING NOISE GOING INTO GEAR OIL OR FLUID LEAKING FROR TRANSMISSION. ☐ CLUTCH SEEMS TO SLIP GOING INTO GEAR. HELP CLUTCH PEDAL ENGAGES TOO LOW. CLUTCH SEEMS HARD TO DEPRESS. CLUTCH SEEMS SOFT TO DEPRESS. CLUTCH PEDAL ENGAGES TO HIGH. DINONE OF THE ABOVE SYMPTOMS, CHATTERS GOING INTO GEAR. ☐ DOESN'T GO INTO ANY GEAR BACK **MANUAL TRANSMISSION:** ■ POPS OUT OF GEAR. 엉 ☐ DELAYS ENGAGEMENT IN FORWARD GEAR. TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM. TRANSMISSION MAKES UNUASAL NOISES. ☐ DELAYS INGAGEMENT IN REVERSE GEAR. HELP MHEN SHIFTING. ☐ OIL OR FLUID LEAK COMING FROM TRANSMISSION. ☐ NONE OF THE ABOVE SYMPTOMS. □ SHIFT IS SLOW-SEEMS TO SLIP. SHIFT IS ROUGH OR HARSH. Fig. 16B BACK **AUTOMATIC TRANSMISSION:** DOESN'T SHIFT DOWN. ☐ SHIFT IS TOO EARLY. DOESN'T SHIFT UP. S

Fig. 16C

WHEN DO YOU NOTICE THE SYMPTOM(S). TOUCH THE APPROPRIATE BOX OR BOXES BELOW DACCELERATING OSTANDING STILL OBRAKING OTURNING OSLOWING DOWN ODRIVING UPHILL **FMY VEHICLE'S ENGINE TEMPERATURE READS:** -THE SYSTEM SHOWS WHEN THE VEHICLE IS: THE SYMPTOM OCCURS WHEN I DRIVE FOR: IN WHAT GEAR DOES THE SYMPTOM SHOW: ANY GEAR. HELP ONEUTRAL OUNDER 5 MILES OSTO 10 MILES O 당 O2 O3 O4 O5 O6 ONEUTRAL OANY GEAR -AUTOMATIC TRANSMISSION: BACK 02 01 -MANUAL TRANSMISSION: NORMAL OREVERSE -WHEN DOES IT HAPPEN: OVER 10 MILES O O 웅 OPARK O COLD 00 **O** ō TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM. MAKES A GRINDING NOISE GOING INTO 4WD. HELP 4WD FRONT HUBS DON'T ENGAGE. NONE OF THE ABOVE SYMPTOMS. DOESN'T SHIFT INTO 4WD LOW. 4WD LIGHT DOESN'T COME ON. Fig. 16D DOESN'T SHIFT INTO 4WD HI HARD TO TAKE OUT OF 4WD. BACK FOUR WHEEL DRIVE: 엉

24/54

Fig. 16E

							25/5	4			 		<b>-</b> ,
HEATING SYSTEMS:	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.	☐ TEMPERATURE CONTROL SELECTOR IS HARD TO MOVE.	☐ VENT CONTROL SELECTOR IS HARD TO MOVE.	DOESEN'T DELIVER HOT AIR.	☐ TAKES TOO LONG TO DELIVER HOT AIR.	☐ DEFROST INOPERABLE OR FOGS UP.	☐ ENGINE TRMPERATURE GUAGE DOESN'T MOVE OFF OF COLD.	UNUSUAL ODORS WHEN OPERATING.	METAIR DOESN'T FLOW FROM ALL OUTLETS PROPERLY.	☐ NONE OF THE ABOVE SYMPTOMS.	_	DACK HELP	Fia. 17B
HEATER / AIR CONDITIOMING:	THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. PLEASE TOUCH THE APPROPRIATE NUMBER FOR YOUR VEHICL F'S SYMPTOM	PLEASE ONLY USE THE PEN PROVIDED TO YOU.			O AID CONDITIONING OVOTITE	2. ALITO TEMBEDATION CONTINUES ONLY	S. ACIO LEIMPERATORE CONTROL SYSTEM.				1 2 3 BACK HELP		Fig. 17A

Fig. 17B

-AIR CONDITIONING SYSTEMS:	-AUTOMATIC TEMPERATURE CONTROL SYSTEM:
TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.
•	
☐ TEMPERATURE CONTROL SELECTOR IS HARD TO MOVE.	☐ TEMPERATURE READING IS INACCURATE.
☐ VENT CONTROL SELECTOR IS HARD TO MOVE.	BUTTONS ON THE CONTROL UNIT ARE INOPERABLE.
☐ DOESN'T DELIVER COLD AIR.	TAKES TOO LONG TO DELIVER ACCURATE TEMPERATURE.
☐ TAKES TOO LONG TO DELIVER COLD AIR.	NONE OF THE ABOVE SYMPTOMS.
☐ TEMPERATURE CHANGES UNEXPECTEDLY.	
UNUSUAL ODORS WHEN OPERATING.	
DOESN'T FLOW FROM ALL OUTLETS PROPERLY.	
☐ A/C COMPRESSOR SEEMS TO CYCLE TOO OFTEN.	
LINONE OF THE ABOVE SYMPTOMS.	
OK BACK HELP	OK BACK HELP
Eig 170	

Fig. 17D

WHED DOES IT HAPPEN:
WHEN DO YOU NOTICE THE SYMPTOM(S). TOUCH THE APPROPRIATE BOX OR BOXES BELOW.
WHEN THE SELECTOR CONTROL IS:  O FLOOR OMIX OVENT ODEFROST  O DOESN'T MATTER
WHEN THE TEMPERATURE CONTROL IS: OCOOL OWARM ONORMAL A/C OMAX A/C ODEFROST ©DOESN'T MATTER
WHEN I AM MOVING THE SELECTOR OR -CHANGING THE TEMPERATURE:
O STOPPED O ACCELERATING FROM STOP O MOVING ODECELERATING ODESN'T MATTER
WHEN THE VEHICLE TEMPETATURE IS: OCOLD ONORMAL OHOT © DOESN'T MATTER
OK BACK HELP

Fig. 17E

CONVENTIAL BRAKE SYSTEM TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBES WHAT YOU ARE NOTICING.	□ BRAKE PEDAL SEEMS TO PULSATE. □ PULLS RIGHT OR LEFT WHEN STOPPING. □ GRINDING NOISE WHEN STOPPING. □ SQUEAKS WHEN STOPPING. □ BRAKE PEDAL FADES (GOES TO THE FLOOR) □ BRAKE PEDAL SEEMS LOW. □ BRAKING EFFORT SEEMS EXCESSIVE. □ BRAKE LIGHT ON. □ □ NONE OF THE ABOVE SYMPTOMS.	OK BACK HELP
AAKE SYSTEM:  HE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR YEHICLE. PLEASE TOUCH THE APPROPRIATE JUMBER FOR YOUR VEHICLE'S SYMPTOMS.	1. CONVENTIAL BRAKE SYSTEM. 2. ANTI LOCK BRAKE SYSTEM. 3. BOTH SYSTEMS.	1 2 3 BACK HELP

Fig. 18B

	29/54		_
WHEN DOES IT HAPPEN: WHEN DO YOU NOTICE THE SYMPTOM(S). PLEASE ANSWER THE QUESTIONS BY TOUCHING THE APPROPRIATE BOX OR BOXES WITH THE PROVIDED PEN.	WHEN I BRAKE UNDER THE FOLLOWING CONDITIONS:  O NORMAL BRAKING ON DRY PAVED ROADS.  O PANIC STOP (BRAKING HARD) ON DRY PAVED ROADES.  O AT HIGH SPEEDS (ABOVE 55 MPH).  O AT LOW SPEEDS.  O COLD ON	OK BACK HELP	Fia. 18D
TANTI-LOCK BRAKING SYSTEM: TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES WHAT YOU ARE NOTICING.	□ ANTI-LOCK BRAKE SEEM INOPERABLE. □ ANTI-LOCK BRAKE LIGHT IS ON CONSTANTLY. □ ANTI-LOCK BRAKE LIGHT IS ON INTERMITTENLY. □ NONE OF THE ABOVE.	OK BACK HELP	Fig. 18C

Fig. 18D

_							30	/54				 		7
-STEERING INFORMATION:	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.		STEERING WHEEL SHAKES WHILE DRIVING.	☐ VEHICLE PULLS RIGHT WHILE DRIVING.	☐ VEHICLE PULLS LEFT WHILE DRIVING.	☐ VEHICLE WANDERS LEFT OR RIGHT WHILE DRIVING.	☐ STEERING WHEEL IS OFF-CENTER.	☐ TIRES ARE WEARING ABNORMALLY.	☐ STEERING WHEEL SEEMS HARD TO TURN.	☐ POWER STEERING MAKES ABNORMAL NOISES.	☐ NONE IF THE ABOVE SYMPTOMS.	-	OK BACK HELP	Fig. 19B
-STEEBING AND SUSPENSION:	THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SERVICE TECHNICIAN WHO WILL WORK ON YOUR VEHICLE. PLEASE TOUCH THE APPROPRIATE	NUMBER FOR YOUR VEHICLE'S SYMPTOM. PLEASE ONLY USE THE PEN PROVIDED TO YOU.			1. STEERING	2. SUSPENSION			**,				1 2 BACK HELP	Fig. 19A

		31/54		_
	WHEN DO YOU NOTICE THE SYMPTOM(S). TOUCH THE APPROPRIATE BOX OR BOXES BELOW.	WHEN THE VEHICLE IS:  OACCELERATING O SLOWING DOWN OR STOPPING OTURNING OTURNING ON PAVED ROADS OTURNING ON DIRT OR ROUGH ROADS OFFICE SENT MATTER  WHEN THE VEHICLES SPEED IS: ONOT MOVING O 0 TO 10 MPH O 10 TO 35 MPH O OVER 55 MPH O OVER 55 MPH	OK BACK HELP	
-SUSPENSION INFORMATION:	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.	<ul> <li>☐ FRONT END BOUNCES EXCESSIVELY WHILE DRIVING.</li> <li>☐ REAR END BOUNCES EXCESSIVELY WHILE DRIVING.</li> <li>☐ RIGHT FRONT SEEMS TO SAG.</li> <li>☐ LEFT FRONT SEEMS TO SAG.</li> <li>☐ LEFT REAR SEEMS TO SAG.</li> <li>☐ LEFT REAR SEEMS TO SAG.</li> <li>☐ SUSPENSION NOISE OVER BUMPS.</li> <li>☐ SUSPENSION SEEMS TOO SOFT.</li> <li>☐ AUTO RIDE CONTROL LIGHT COMES ON.</li> <li>☐ NONE OF THE ABOVE SYMPTOMS.</li> </ul>	OK BACK HELP	Fig. 19C

_		_						32	2/54			
ELECTRICALLY OPERATED COMPONENTS	TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBE THE AREA OF THE SYMPTOM.		L EXTERIOR LIGHT(S).	☐ INTERIOR LIGHT(S)	☐ WARNING GUAGES OR LIGHTS.	☐ HORN OR CIGAR LIGHTER / POWER SOCKET.	☐ WINDSHIELD WIPERS / WASHERS.	[REAR WINDOW DEFROSTER]	IF THE ABOVE DOESN'T SEEM TO DESCRIBE THE PROBLEM, TOUCH "BACK" THEN SELECT "POWER ACCESSORIES "AND LOOK THERE FOR A BETTER DESCRIPTION.		OK BACK HELP	
FELECTRICAL INFORMATION:	THE FOLLOWING QUESTIONS ARE DESIGNED TO DELIVER VALUABLE INFORMATION TO THE SFRVICE TECHNICIAN WHO WILL WORK ON YOUR	VEHICLE. PLEASE TOUCH THE APPROPRIATE NUMBER FOR YOUR VEHICLE'S SYMPTOM.	PLEASE ONLY USE THE PEN PROVIDED TO YOU.				1. ELECTRICALLY OPERATED COMPONENTS	1. POWER ACCESSORIES.			1 2 BACK HELP	

Fig. 20B

							·	33	3/5	4			 	<b>_</b>
LETS NARROW THE SEARCH:	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE PROBLEM.		☐OUT OF ADJUSTMENT	☐BROKEN	☐ CRACKED	☐ WARPED		COLOR FADES	DPEELING	ПРІТТЕ	XK DOESN'T WORK	THE ABOVE	BACK	Fia. 20D
	TOUCH THE APPROPRI DESCRIBES THE PROF		□SCRATCHED	MISSING	☐LEAKS AIR	☐LEAKS WATER	TORN	BLEMISHED	LIFT MECHANISM	FOLD MECHANISM		☐ NONE OF THE ABOVE	ğ	Fi
Γ													 	7
INFORMATION:	TOUCH THE APPROPRIATE BOX OR BOXES THAT DESCRIBES THE SYMPTOM.		LARM SYSTEM.	POWER MIRRORS.	☐ AUTO DIM HEADLAMPS / INTERIOR LIGHTING.	STMENT/ COMFORT.	OWER ANTENNA.	LOCKS / SUNROOF.		N'T SEEM TO DESCRIBE THE	PROBLEM, TOUCH "BACK" THEN SELECT "ELECTRICALLY OPERATED COMPONENTS" AND LOOK THERE FOR A BITTER PROBLEM.	AIND LOON I MEHE FOR A BELLIEH DESCRIPTION.	BACK	Fig. 20C
-POWER ACCESSORIES INFORMATION:	TOUCH THE APPROPRI DESCRIBES THE SYMP		LKEYLESS ENTRY / ALARM SYSTEM.	LIGHTED MIRRORS / POWER MIRRORS.	☐ AUTO DIM HEADLAM	POWER SEAT ADJUSTMENT/ COMFORT.	☐ AUDIO SYSTEMS / POWER ANTENNA	POWER WINDOWS / LOCKS / SUNROOF.	CRUSE CONTROL.	IF THE ABOVE DOESN	PROBLEM, TOUCH "B. "ELECTRICALLY OPER	AND LOOK THERE FO	OK	Fig

PLEASE TOUCH THE AREA WHERE THE SYMPTOMS OCCURES: TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBES WHERE THE PROBLEM RIGHT SIDE (PASSENGER) -SELECT THE AREA IT IS LOCATED IN: -LEFT SIDE (DRIVER) BACK 0 엉 SLOCATED WHEN DO YOU NOTICE THE SYMPTOM(S). TOUCH THE APPROPRIATE BOX OR BOXES BELOW. HELP ■ WHEN I OPEN A PASSENGER SIDE DOOR. ■ WHEN I TRY TO MAKE AN ADJUSTMENT. WHEN I TURN THE SWITCH ON OR OFF. ■ WHEN I OPEN A DRIVER-SIDE DOOR. ■ WHEN I TURN THE HEAD LIGHTS ON. WHEN I TRY TO SET THE CONTROL. ■ WHEN THE VEHICLE HITS A BUMP. ■ WHEN I OPEN THE TRUNK / HOOD. ☐ WHEN I ADJUST THE VOLUME. Fig. 20E ■ WHEN I START THE VEHICLE. BACK NONE OF THE ABOVE. -WHEN DOES IT HAPPEN: 엉

34/54

**CLEAR DOT** 

Fig. 20F

HELP

OTHER SERVICES AVAILABLE: \_\_\_\_\_\_

PLEASE SELECT THE CATEGORY OF THE PROBLEM YOU ARE OBSERVING WITH YOUR VEHICLE.

- 1. SCHEDULED MAINTENANCE.
- 2. UNSCHEDULED MAINTENANCE:
- 3. VEHICLE EXTERIOR.
- 4. VEHICLE INTERIOR.
- 5. SPECIAL ORDER PARTS/ RECALL NOTICE.
- 6. NEW OR USED CAR INTERNAL.
- 7. GENERAL PROBLEMS.

BACK

Fig. 21A

YOUR VEHICLE'S CLOSEST SCHEDULED

YOUR VEHICLE'S CLOSEST SCHEDULED

MAINTENANCE SERVICE HAS BEEN HIGHLIGHTED
BELOW. PLEASE CHOOSE THE SERVICE YOU
WISH TO HAVE PERFORMED BY TOUCHING THE
APPROPRIATE MILAGE. REFER TO YOUR
MAINTENANCE SCHEDULE BOOKLET TO VIEW
THE ITEMS PERFORMED IN THE SERVICE. IF YOU
WISH TO CHANGE ANY PART OF THE SERVICE,
SELECT HELP THEN #3

YOR ENTERED MILAGE IS: 12,500

● 12,000 MILES

O 18,000 MILES

35/54

O6,000 MILES

O 24,000 MILES

Š

BACK

HELP

Fig. 21B

-VEHICLE EXTERIOR:

THE APPROPRIATE AREA IN WHICH THE PROBLEM AND RELATED EXTERIOR PARTS. PLEASE TOUCH THIS SECTION INCLUDES THE VEHICLE'S BODY SOCCURRING APPROPRIATE SERVICES YOU WOULD LIKE PERFORMED. PLEASE REFER TO YOUR VEHICLE'S MAINTENANCE SCHEDULE BOOKLET FOR MORE INFORMATION OF THE SERVICES BELOW. OR YOU

CAN REQUEST A MAINTENANCE SHEET FROM ONE OF THE ASSISTANTS ON THE SERVICE AISLE.

TOUCH THE BOX OR BOXES NEXT TO THE

**-UNSCHEDULED MAINTENANCE:** 

35.00

55.00

\$100.00

☐ EVERY 30,000 MILES:

EVERY 15,000 MILES:

□ EVERY 6000 MILES:

☐ EVERY 3000 MILES

EVERY 60,000 MILES:

\$85.00

\$125,00

\$35,00

□ VEHICLE ALIGNMENT, 2 WHEEL:

🗖 VEHICLE ALIGNMENT, 4 WHEEL:

□ VEHICLE INSPECTION:

\$ 75.00

\$35.00

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HELP

BACK

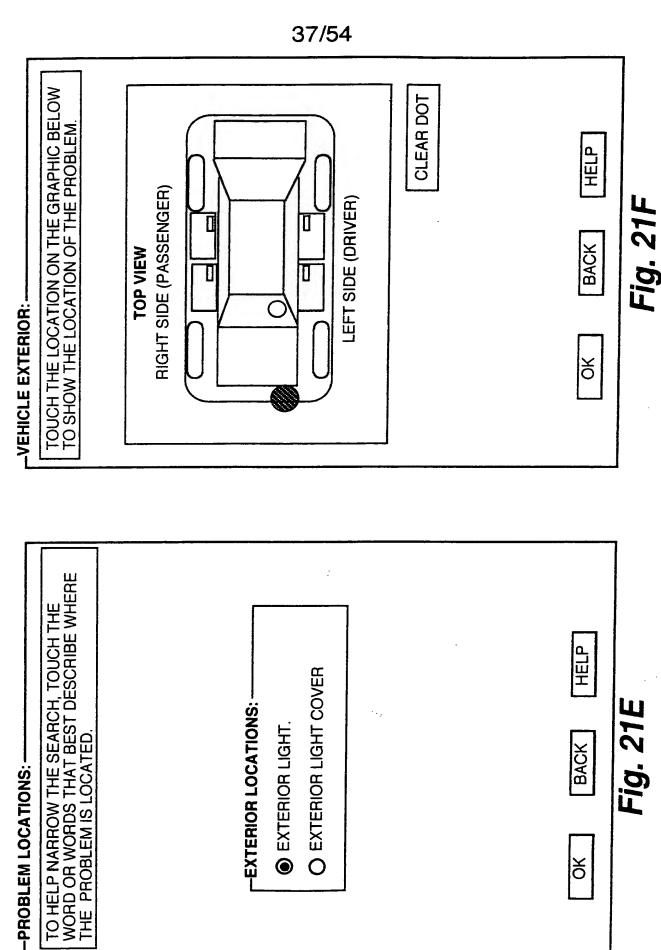
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Fig. 21D

HELP

Fig. 21C

O EXTERIOR MIRRORS, HANDLES, LOCKS AND BUTTONS. O REMOVEABLE HARDTOP / SOFT TOP CONVERTABLE. O EXTERIOR SEALS (DOORS, SUNROOF, TRUNK, ETC.) O WHEELS OR SPARE WHEEL CARRIERS. **EXTERIOR LIGHTS OR LIGHT COVERS** O PLASTIC TRIM AND MOLDINGS. O BODY PANELS FIT AND FINISH. BACK O PAINT AND/ORCLEARCOAT. O WINDSHIELD OR WINDOWS. •



VEHICLE INTERIOR:

THIS SECTION INCLUDES THE VEHICLE'S INTERIOR
AND TRUNK AREA. PLEASE TOUCH THE
APPROPRIATE NUMBER IN WHICH THE PROBLEM
IS OCCURRING.

O SEATS OR SEAT CUSHIONS.

O CARPETING OR FLOOR MATS.

O DOOR PANELS OR INTERIOR SIDE PANELS.

O INTERIOR TRIM OR HEADLINER.

O DASH PANEL OR INSTRUMENT PANEL

O INTERIOR KNOBS, HANDLES AND LATCHES.

O INTERIOR SWITCHES, BUTTONS, LOCKS AND SLIDES.

O WINDSHELD OR WINDOWS.

INTERIOR LIGHTING, INSTRUMERT PANEL LIGHTING.

Fig. 21G

HELP

BACK

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PROBLEM LOCATION:

TO HELP NARROW THE SEARCH, TOUCH THE WORD OR WORDS THAT BEST DESCRIBE WHERE THE PROBLEM IS LOCATED.

INTERIOR LOCATED.

O INTERIOR LIGHT.

O INTERIOR INSTRUMENT LIGHT.

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Fig. 21H

HELP

BACK

TOUCH THE BOX OR BOXES NEXT TO THE WORD OR PHRASE THAT BEST DESCRIBES THE PROBLEM. OUT OF ADJUSTMENT DOESN'T WORK HELP COLOR FADES CRACKED ☐ PEELING U WARPED ☐ BROKEN D PITTED **1** 100SE ☐ NONE OF THE ABOVE BACK -PROBLEM DESCRIPTION: ☐ WONT LOCK / UNLOCK ☐ FOLD MECHANISM LIFT MECHANISM ☐ LEAKS WATER ☐ SCRATCHED ☐ BLEMISHED ☐ LEAKS AIR ☐ MISSING Š ☐ TORN TOUCH THE LOCATION ON THE GRAPHIC BELOW TO SHOW THE LOCATION OF THE PROBLEM. **CLEAR DOT** HELP RIGHT SIDE (PASSENGER) **.EFT SIDE (DRIVER)** BACK 0 -VEHICLE INTERIOR: -충

39/54

Fig. 21J

Fig. 211

_		40/54	
FNEW / USED CAR INTERNAL:	IF YOU HAVE A "NEW CAR INTERNAL REPAIR ORDER", PRESS ONE. IF YOU HAVE A "USED CAR INTERNAL REPAIR ORDER". PRESS TWO. PLEASE PLACE THE REPAIR ORDER ON THE DASHBOARD OF YOUR VEHICLE.	USED CAR INTERNAL.	OK BACK HELP
-SPECIAL ORDER / RECALL NOTICE:	IF YOU HAVE RECEIVED NOTIFICATION REGARDING AN ORDERED PART, TOUCH ONE. IF YOU HAVE RECEIVED A MANUFACTURER'S RECALL NOTICE REGARDING YOUR VEHICLE, TOUCH TWO. PLEASE PLACE THE NOTICE ON THE DASHBOARD AREA OF YOUR VEHICLE FOR THE SERVICE TECHNICIAN.	SPECIAL ORDER PARTS NOTICE.  [MANUFACTURE'S RECALL NOTICE.]	OK BACK HELP

Fig. 21L

LTHINGS YOU SEE: HIS SECTION OFFERS YOU A GENERAL DESCRIPTION TECHNICIAN WITH VITAL INFORMATION TO BEGIN A SUCCESSFUL REPAIR. IF YOU CAN'T FIND YOUR VEHICLE'S SYMPTOM IN THE MAIN MENU, PROCEED TO THE NEXT SCREEN BY TOUCHING **OK** BELOW, OR SEE YOUR SERVICE ADVISOR. OF THE VEHICLE'S PROBLEM AND PROVIDES THE

THERE ARE FOUR MAIN SENSES YOU HAVE THAT INDICATE A PROBLEM WITH YOUR VEHICLE. PLEASE CHOOSE THE MOST APPROPRIATE SENSE BELOW.

- 1. THINGS YOU SEE
- 2. THINGS YOU HEAR.
- 3. THINGS YOU SMELL
- 4 THINGS YOU FEEL.

BACK	21M
3 4	Fig.

HELP

Fig. 21N

TOUCH THE BOX NEXT	TOUCH THE BOX NEXT TO THE WORD OR PHRASE THAT BEST DESCRIBE THE PROBLEM.
☐ SCRATCHED	☐ OUT OF ADJUSTMENT
MISSING	☐ BROKEN
☐ LEAKS AIR	☐ CRACKED
☐ LEAKS WATER	□ WARPED
TORN	3001 🗆
☐ BLEMISHED	☐ COLOR FADES
☐ LIFT MECHANISM	☐ PEELING
☐ FOLD MECHANISM	O PITTED
MONT LOCK / UNLOCK	C DOESN'T WORK
☐ NONE OF THE ABOVE	The above
OK BACK	SK HELP

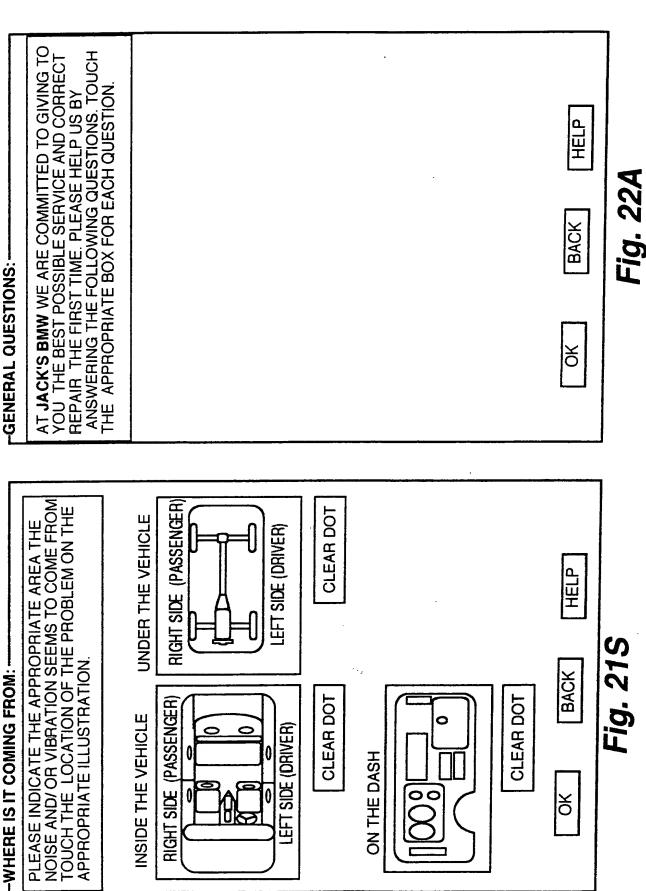
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		42/54	
THINGS YOU SMELL:	TOUCH THE BOX NEXT TO THE WORD OR PHRASE THAT BEST DESCRIBE THE PROBLEM.	BURNING SMELL  MUSTY ODOR  RAW FUEL SMELL  EXHAUST LEAK  ENGINE COOLANT SMELL  BURNING BRAKE SMELL  BURNING BRAKE SMELL  NONE OF THE ABOVE SYMPTOMS.	OK BACK HELP
-THINGS YOU HEAR:	TOUCH THE BOX NEXT TO THE WORD OR PHRASE THAT BEST DESCRIBE THE PROBLEM.	□ SQUEAK □ TAP □ RATTLE □ CLICK GRIND □ WHISTLE □ GROWL □ HUM □ KNOCK □ BUZZ □ METAL CLANG □ CHIRP □ RUMBLE □ CHIRP □ NONE OF □ CLUNK	OK BACK HELP
-THING	TOUC! THAT		

Fig. 21P

		43/54		
	WHEN DO YOU NOTICE THE SYMPTOMS ? TOUCH THE APPROPRIATE BOX OR BOXES.	WHEN THE VEHICLE IS:  O ACCELERATING O SLOWING DOWN OR STOPPING O TURNING ON PAVED ROADS O TURNING ON DIRT ROADS	OK BACK HELP	Fig 21B
-THINGS YOU FEEL:	LISTED BELOW ARE EXAMPLES OF VIBRATIONS COMMONLY FOUND COMING FROM YOUR VEHICLE. TOUCH THE APPROPRIATE BOX OR BOXES THAT BEST DESCRIBE THE VIBRATION(S) YOU ARE FEELING.	□ SHAKING □ SHUDDER □ THUMPING □ PULSATION □ TREMBLING □ MOAN □ BOOM □ ROUGHNESS □ BUZZING □ TINGLING □ CLUNK □ RUMBLE □ CHATTER □ SHIMMY □ CHATTER □ SHIMMY □ THE ABOVE	OK BACK HELP	710.VI

Fig. 21R



					45/	54		
RETURN PROBLEM:	WHEN DO YOU NOTICE THE SYMPTOMS? TOUCH THE APPROPRIATE BOX OR BOXES.	—HOW MANY TIMES HAS THE PROBLEM BEEN —	ONCE OTWICE OTHREE TIMES AND OVER	■ A PEW DAYS AGO OA WEEK TO TWO WEEKS OA FEW WEEKS OMONTH AGO		CHAS THE PROBLEM BEEN LOOKED AT BY ANYONE OTHER THAN THIS SERVICES DEPARTMENT:	OK BACK HELP	Eig 220
-OTHER SYMPTOMS:	PLEASE TELL US ABOUT THE SYMPTOMS.	HOW OFTEN DOES THE SYMPTOM SHOW UP:  • ALWAYS OSOMETIMES ORARELY	WHEN DID THE PROBLEM BEGIN:  O AFTER LAST REPAIR  UST STARTED	O A FEW WEEKS O MORE THAN A WEEK O A FEW WEEKS O MORE THAN A MONTH AGO	HAS THE PROBLEM BEEN WORKED ON BEFOFE:  OYES ONO	WHEN THE PROBLEM OCCURES, THE WEATHER IS: 1 OHOT OHUMID OR RAINY OCCOL OFREEZING COLD ODOESN'T MATTER	OK BACK HELP	Fig. 22B

Fig. 22C

46/54 \$ 95.00 \$ 45.00 \$ 50.00 \$25.00 WOULD YOU LIKE ANY OF THE FOLLOWING UNSCHEDULED SERVICES TO BE PERFORMED. HELP (EXTENDS TIRE LIFE, IMPROVES HANDLING) (IMPROVES YOUR VEHICLES APPEARANCE) COMPUTERIZED VEHICLE ALIGNMENT MINOR TUNE-UP
(IMPROVES FEUL MILAGE AND GIVES ☐ LUBE, OIL AND FILTER CHANGE (EXTENDESTHE LIFE OF THE ENGINE AND SUSPENSION PARTS) BACK ☐ VEHICLE DETAIL AND WASH -UNSCHEDULED SERVICES: **QUICKER STARTS)** 숭 DO YOU HAVE ANY ADDITIONAL VEHICLE PROBLEMS OR MAINTENANCE REQUIREMENTS YOU WOULD LIKE TO HAVE ADDRESSED TODAY. BACK Fig. 23 ADD SYMPTOM -ADDITIONAL PROBLEMS: -DONE

Fig. 24

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YOUR REPAIR ORDER:	LOOK OVER THE FOLLOWING PANELS. THEY HOLD A SUMMARY OF THE INFORMATION YOU JUST ENTERED. IF THE DESCRIPTIONS DON'T LOOK CORRECT TOUCH THE MODIFY BUTTON, IF YOU WANT TO DELETE ONE TOUCH DELETE.	USE THE "PREVIOUS" AND "NEXT" BUTTONS, BELOW, TO VIEW ITEMS NOT SHOWN. MODIFY	SCHEDULED MAINTENANCE DELETE:	SCHEDULED MAINTENANCE AT: 12,000 MILES	PREVIOUS	OK BACK HELP
-YOUR REPAIR ORDER:	LOOK OVER THE FOLLOWING PANELS. THEY HOLD A SUMMARY OF THE INFORMATION YOU JUST ENTERED. IF THE DESCRIPTIONS DON'T LOOK CORRECT TOUCH THE MODIFY BUTTON, IF YOU WANT TO DELETE ONE TOUCH DELETE.	USE THE "PREVIOUS" AND "NEXT" BUTTONS, BELOW, TO VIEW ITEMS NOT SHOWN. MODIFY	VIBRATIONS DELETE:	IT OCCURES WHEN THE VEHICLE IS: MOVING-MOST LIKELY OCCURS WHEN I AM: CRUSING AT A CONSTANT SPEED. AT WHAT SPEED(MPH): 20 TO 45 - SECTION B2 WAS CHOSEN FOR THE VEHICLE'S DASH HOW OFTEN DOES THE SYMPTOM SHOW UP: ALWAYS - WHEN DID THE PROBLEM BEEN WORKED ON: ONCE APPROXIMATELY HOW LONG AGO: A FEW DAYS AGO	PREVIOUS	OK BACK HELP

47/54

Fin OKB

PICK-UP TIME FOR YOUR VEHICLE. IF YOU PREFER AN APPROXIMATE COST AND PICK-UP TIME NOW, SEE YOUR SERVICE ADVISOR AFTER COMPLETING YOUR PERSONAL SERVICE ADVISOR IS: HE OR SHE WILL CONTACT YOU AND PROVIDE YOU WITH ANY ESTIMATED REPAIR COSTS AND YOUR REPAIR ORDER. PLEASE CHOOSE YOUR O I WOULD LIKE TO SEE THE ADVISOR. HELP -VEHICLE ESTIMATE AND PICK-UP TIME: BACK PLEASE CONTACT ME OPTION BELOW 엉 \$ 0.00 PLEASE KEEP IN MIND THE ACTUAL COSTS MAY BE HIGHER OR LOWER THAN THE ESTIMATE. WE WILL CONTACT YOU IF THE COST OF 'HE REPAIR IS HIGHER THAN THE ESTIMATE THE ESTIMATED MAINTENANCE COST IS HELP TOTAL: **ESTIMATED REPAIR COSTS** BACK AS FOLLOWS: 乡

48/54

Fig. 27

**DESCRIBED ON STREETS, HIGHWAYS OR ELSWHERE** NSPECTION AN EXPRESS MECHANIC'S LIEN IS HEREBY ACKNOWLEDGED ON VECHICLE TO SECURE A STORAGE FEE OF NOT MORE THAN TEN DOLLARS PER DAY, BEGINING ON THE FORTH DAY, MAY BE CHARGED IF A MOTOR VECHICLE IS NOT REMOVED MATERIAL AND AGREE THAT(DEALER) IS NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR ARTICLES LEFT IN VEHICLE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND YOUR HEREBY GRANT YOU AND I OR YOUR EMPLOYEES **JOTIFIED THAT REPAIRS HAVE BEEN COMPLETED** SHIPMENTS BY THE SUPPLIER OR TRANSPORTER AUTHORIZE THE REPAIR WORK HERE SET FORTH CONTROL OR FOR ANY DELAYES CAUSED BY JNAVAILABILITY OF PARTS OR DELAYS IN PARTS PERMISSION TO OPERATE THE VEHICLE HEREIN WITHIN THREE DAYS AFTER THE CUSTOMER IS EXCLUDING SATURDAYS, SUNDAYS AND LEGAI IOLIDAYS, TERMS: STRICTLY CASH CHECK OR PLEASE ACKNOWLEDGE THE FOLLOWING: I HEREBY O BE DONE ALONG WITH THE NECESSARY PLEASE ACKNOWLEDGE THE FOLLOWING: **-OR THE PURPOSE OF TESTING AND/ OR** HE AMOUNT OF REPAIRS THERETO APPROVED CREDIT CARD

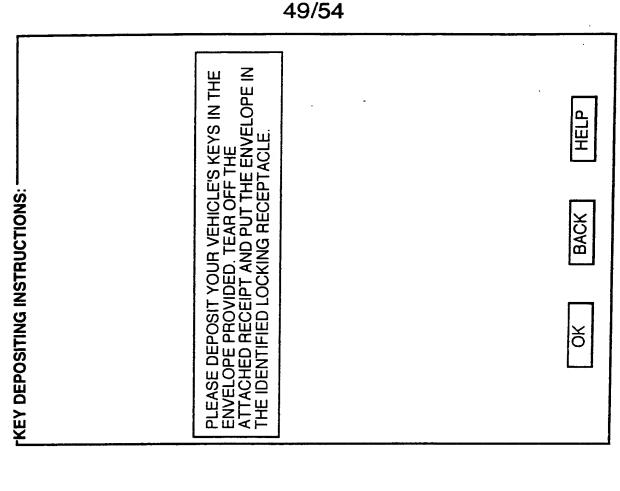
**CUSTOMER ACKNOWLEDGES RECEIPT HEREOF** 

PLEASE SIGN HERE

**ERASE SIGNITURE** 

HELP BACK 숭

Fig. 28



PLEASE ANSWER THE FOLLOWING QUESTIONS SO WE CAN PREPARE FOR YOU.  ARE YOU WAITING FOR YOUR VEHICLE:  OYES ONO  OYES ONO  OYES ONO	REPLACED PARTS:  OYES ONO	OK BACK HELP
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Fig. 30

THANK YOU FOR CHOOSING
ASSIST IN YOUR SERVICE NEEDS. BUSINESS
CARDS ARE AVAILABLE AT THE DESK. IF YO
HAVE ANY QUESTIONS, PLEASE CALL AT HELP DOWNLOAD COMPLETE -- A FINISHED REPAIR ORDER: -욧 THANK YOU FOR CHOOSING
ASSIST IN YOUR SERVICE NEEDS. BUSINESS
CARDS ARE AVAILABLE AT THE DESK. IF YOU
HAVE ANY QUESTIONS, PLEASE CALL AT SEND DATA HELP Fig. 31A -A FINISHED REPAIR ORDER: -중

51/54

Fig. 31B



## REPAIR ESTIMATE

CONTROL NO. 553

**DATE:** 7/13/98

TIME: 7:54:15 PM

PLATE: BRT-1234 VIN: 123456789 MILEAGE: 33225

PHONE #2: (303)333-4445

CITY/ST/ZIP: ANYTOWN, USA 12345

(303)333-4444

PHONE #1:

DESCRIPTION: *DODGE RAM 350,FORREST GREEN,2001* 

ANTI-LOCK BRAKE SYSTEN

ADDRESS: 1234 HIS WAY ST

CUSTOMER: NAME: JOHN DOE

**VEHICLE:** 

ANTI-LOCK BRAKE LIGHT IS ON CONSTANTLY. ANTI-LOCK BRAKE LIGHT IS ON INTERMITTENTLY. WHEN I BRAKE UNDER THE FOLLOWING CONDITIONS: NORMAL BRAKING ON DRY PAVED ROADS.

WHEN MY VEHICLE'S ENGINE TEMPERATURE READS: NORMAL HOW OFTEN DOES THE SYMPTOM SHOW UP: ALWAYS WHEN DID THE PROBLEM BEGIN: JUST STARTED SHOW MANY TIMES HAS THE PROBLEM BEEN WORKED ON: THREE TIMES AND OVER

APPROXIMATELY HOW LONG AGO: A FEW DAYS AGO ELECRTICALLY OPERATED COMPONENTS

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INTERIOR LIGHT(S) WARNING GUAGES OR LIGHTS. HORN OR CIGAR LIGHTER / POWER SOCKET.

WHAT DID YOU NOTICE: CRACKED WHAT DID YOU NOTICE: WARPED WHAT DID YOU NOTICE: LOOSE WHEN I START THE VEHICLE. WHEN I TRY TO SET THE CONTROL. WHEN I OPEN A DRIVER-SIDE DOOR.

WHEN I TURN THE HEAD LIGHTS ON.
SECTION C3 WAS CHOSEN FOR THE ELECTRICAL PROBLEM LOCATION.
HOW OFTEN DOES THE SYMPTOM SHOW UP: ALWAYS
WHEN DID THE PROBLEM BEGIN: JUST STARTED

HOW MANY TIMES HAS THE PROBLEM BEEN WORKED ON: THREE TIMES AND OVER APPROXIMATELY HOW LONG AGO: A WEEK TO TWO WEEKS

CONTINUED ON FIG. 32B)

(CONTINUED FROM FIG. 32A)

## STEERING SYSTEM

VEHICLE PULLS RIGHT WHILE DRIVING. VEHICLE PULLS LEFT WHILE DRIVING. VEHICLE WANDERS LEFT OR RIGHT WHILE DRIVING.

MATERIALS COST TOTAL LABOR: TOTAL PARTS:

53/54

**GRAND TOTAL** 

TAX

**AUTHORIZATION:** I AUTHORIZE THE ABOVE WORK TO BE PREFORMED AND AGREE TO THE TERMS OF THIS REPAIR ORDER. FURTHERMORE, I RELEASE ANY AND ALL LIABILITY TO **RPM** ENTERPRISES, INC. ON THE ABOVE VEHICLE INCLUDING, BUT NOT LIMITED TO: DAMAGE, THEFT, FAILURE OF RELATED REPAIR ITEMS, AND EXPRESSED OR IMPLIED WARRENTY OF ALL INSTALLED PARTS.

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SIGNATURE:

Fig. 32B

